

Solutions to App “Audio Sky Tours”, Episode 6

Astronomy and Astrology

	Solution	Points
1	Astronavigation, starry sky as a calender, positioning the Earth in the cosmos, astrology.	3
2	Kepler, Newton. There is an attractive force between the Sun and the planets.	3
3	Ecliptic and celestial equator, sign of the zodiac.	2
4	By the gyroscopic motion of the Earth. The Earth's axis describes a cone mantle within 26,000 years. This way the celestial north pole travels on a circle around the ecliptic pole and will reach Vega after 12,000 years.	2
5	On these dates the Sun stands at these points of the apparent celestial sphere, seen from the Earth.	1
6	Constellation the Scales (Libra), sign Scorpion (Scorpius).	1
7	The Serpent Holder (Ophiuchus).	1
8	People considered stars to be gods governing the happenings on Earth. They thought they could learn the intentions of the gods from the sky.	2
9	After discovering Kepler's laws and Newton's law of gravitation the motion of the planets was understood and could be calculated for any past and future date. It was recognised that these motions follow physical laws and cannot arise from the arbitrary will of the gods. Astrology seemed no longer to be convincing.	3
10	This constellation stands near to the Sun in the daytime sky. Stars are visible in the night sky only.	2

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